

UDOT Minimum Sampling and Testing Requirements

Revised January '07

Specification - Material: 02056 Embankment, Base, and Borrow

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Quality Assurance: Material for Embankment and Backfill placements. Soil Classification

Reference: AASHTO M 145

Lot Size: Source / soil type or each 20,000 cubic yards or 30,000 tons thereafter.

Frequency per Lot: One test

Point of Acceptance: Sampled from the grade after processing prior to compaction

Sampling Reference: AASHTO T 2

Report/Form: Weekly Form 348

Quality Assurance: Free Draining Granular Backfill Borrow and Underdrain Granular Backfill. Sieve analysis (gradation)

Reference: AASHTO T 27/T 11.

Lot Size: Daily Placement

Frequency per Lot: One per 500 tons or 350 cubic yards

Point of Acceptance: Grade after processing, prior to compaction

Sampling Reference: AASHTO T 2

Report/Form:

Quality Assurance: Laboratory Maximum Dry Density and Optimum Moisture for Density Standard

Reference: AASHTO T 99 Method D or AASHTO T 180 Method D for A-1 soils.

Lot Size: Source / soil type and each 20,000 cubic yards or 30,000 tons thereafter.

Frequency per Lot: One per 20,000 cubic yards or 30,000 tons for each layer.

Point of Acceptance: Grade after processing, prior to compaction

Sampling Reference: AASHTO T 2

Report/Form: Weekly Form 348

Specification - Material: 02056 Embankment, Base, and Borrow

Quality Assurance: In-place density of embankment and subgrade

Reference: AASHTO T 310

Lot Size: A lot equals material placed to line and grade and compacted in one production day

Frequency per Lot: A lot is divided into equal sublots not to exceed 5000 square yards, 150,000 square yards in cut sections. A minimum of one randomly located determination per sublot

Point of Acceptance: Grade after Compaction

Sampling Reference: MOI 8-984

Report/Form: Weekly Form 348

Quality Assurance: In-place density of backfill placements

Reference: AASHTO T 310

Lot Size: A lot equals 1000 square yards or less and not more than one pipe culvert or small structure.

Frequency per Lot: Four randomly located determinations per lot, minimum one determination per lift. Placements less than 10 cubic yards or 15 tons, test as directed by the engineer.

Point of Acceptance: Grade after Compaction

Sampling Reference: MOI 8-984

Report/Form: Weekly Form 348

Quality Assurance: Compaction - Material that is too rocky to apply the correction for coarse particles: 30% cumulatively retained on the ¾" sieve

Reference: AASHTO T 224

Lot Size:

Frequency per Lot: Compaction is visually inspected. Document method and equipment used for placement, appearance of gradation uniformity, moisture content, compactive effort, and final appearance.

Point of Acceptance:

Sampling Reference:

Report/Form: Weekly Form 348

Specification - Material: 02056 Embankment, Base, and Borrow

Quality Assurance: Visual Acceptance of very small quantities of materials

Reference: Acceptance is limited to only material being furnished from sources found satisfactory under normal sampling and testing procedures.

Lot Size: Not to exceed 200 cubic yards or 300 tons per day or 1000 cubic yards or 1500 tons per project

Frequency per Lot: One report for each day material is accepted

Point of Acceptance: Grade

Sampling Reference:

Report/Form: Visual Inspection Report
